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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/621,293
Filed: July 17, 2003
Inventor(s):
Jan D. Garmany and William H.
Hallidy, Jr.

Title: Frequency Domain
Equalization of
Communication Signals

§ Examiner: Unknown
§ Group/Art Unit: 1724
§ Atty. Dkt. No: 5860-00201
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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Jeffrey C. Hood

9/1/03
Signature

5/14/2004
Date

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant requests consideration of ☒ the references listed on the attached Form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. The above-referenced application was filed after June 30, 2003, therefore we are not required to submit a copy of the U.S. patent document references A1-A4 listed on the Form PTO-1449. A copy of references A5-A12 listed on the Form PTO-1449 is enclosed.

1. This Information Disclosure Statement is submitted:

- a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
☒ before the mailing date of a first Office Action on the merits; or
☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

- b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed below.
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed below.
2. It is hereby certified:
- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
4. For each non-English language reference listed on the attached Form PTO-1449:
- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or
- ☐ reference is made to the concise explanation set forth below:
5. ☐ Applicant also offers the following comments for the Examiner's consideration:
6. ☒ Also enclosed is a copy of a foreign search report citing these references.
7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

8. ☐ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

Applicant does not believe that any fees are required relating to this Information Disclosure Statement. The Commissioner is hereby authorized to charge any fees which may be required or credit any overpayment to Meyertons, Hood, Kivlin, Kowert & Goetzel PC, Deposit Account No. 50-1505/5860-00201/JCH.

Respectfully submitted,

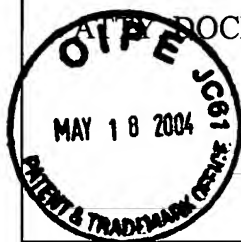


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Date: 5/14/2004

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)



DOCKET NO: 5860-00201

SERIAL NO: 10/621,293

APPLICANT: Garmany et al.

FILING DATE: July 17, 2003

GROUP: 1724

U.S. PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|-------------------|-------------|--------------------|----------|----------------|-------|--------------|-------------------------------|
| | A1 | US 2002/0051087 | 05/02/02 | Limberg et al. | | | |
| | A2 | US2004/0030859 | 06/24/03 | Doerr et al. | | | |
| | A3 | 5,809,069 | 09/15/98 | Polley et al. | | | |
| | A4 | 5,648,987 | 07/15/97 | Yang et al. | | | |

FOREIGN PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION. YES/NO |
|-------------------|-------------|--------------------|----------|---------|-------|--------------|------------------------|
| | A5 | EP 0 975 124 | 01/26/00 | EP | | | |
| | A6 | WO 00/64114 | 10/26/00 | WO | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | | | | | |
|--|-----|--|--|--|--|--|--|
| | A7 | Patent Application No. PCT/US03/22598, International Search Report, Mailed 02/27/04. | | | | | |
| | A8 | G. A. Clark, S. K. Mitra, S. R. Parker, "Block Implementation of Adaptive Digital Filters," IEEE Trans. ASSP, pp. 744-752, Vol. 29, June 1981. | | | | | |
| | A9 | G. A. Clark, S. K. Mitra, S. R. Parker, "Block Implementation of Adaptive Digital Filters," IEEE Trans. CAS, pp. 584-592, Vol. 6, June 1981. | | | | | |
| | A10 | J. C. Lee and C. K. Un, "Performance Analysis of Frequency-Domain Block LMS Adaptive Digital Filters," IEEE Trans. on Circuits and Systems, pp. 173-189, Vol. 36, No. 2, February 1989. | | | | | |
| | A11 | Monisha Ghosh, "Blind Decision Feedback Equalization for Terrestrial Television Receivers," Proceedings of the IEEE, pp. 2070-2081, Vol. 86, No. 10, October 1998 | | | | | |
| | A12 | Advanced Television Systems Committee, "ATSC Standard: Digital Television Standard, Revision B with Amendments 1 and 2," Document A/53B, August 7, 2001; Amendment 1, May 23, 2002; Amendment 2, May 19, 2003. | | | | | |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.